

SOLID WASTE RECYCLING REGULATIONS & E-WASTE

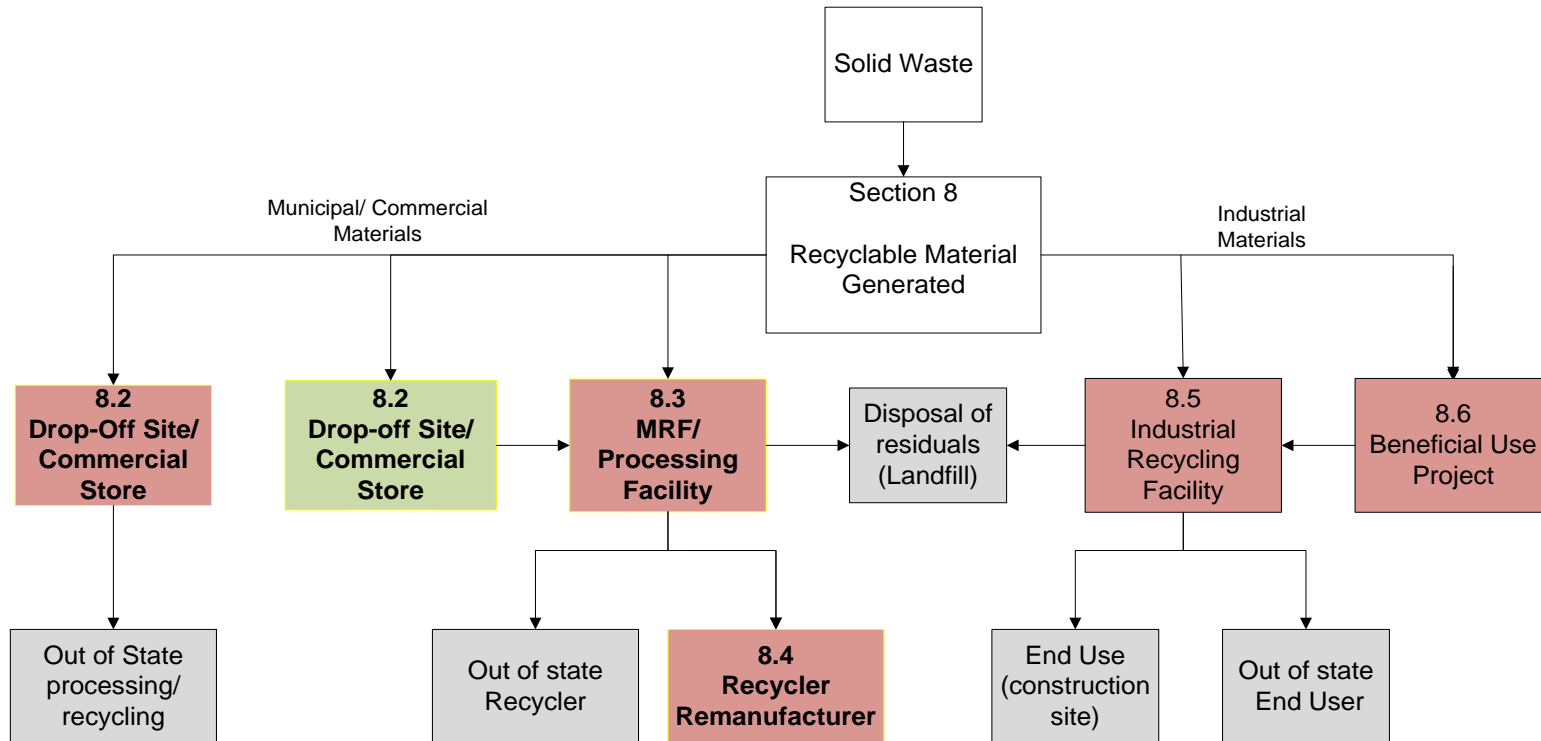
October 25, 2012

OVERVIEW

- ◉ Applicability of Solid Waste regulations on electronic waste
- ◉ SW Regulatory requirements for recyclers
- ◉ New laws & regs that will impact the e-waste industry

NO, THIS IS NOT A PEYTON MANNING AUDIBLE

Recycling Regulation Site Applicability



Exempt
from
registering
& reporting

Regulated
under
section 8

Exit point
from
Section 8

Applies to
E-waste



8.2 DROP-OFF SITES

- Collection of recyclables only
- No processing / dismantling
- Sending materials to registered recycler

8.2 RECYCLABLE MATERIAL GENERATOR



-Sites collecting recyclable materials,
sending directly out of state for
recycling

-over 100 tons annually



8.3 MATERIAL RECOVERY FACILITY

- processing, dismantling, separating,
sorting, baling recyclables for
conveyance to end markets /
remanufacturing

MINIMUM STANDARDS

A recycling facility shall...

- ⦿ Operated in order to prevent:
 - Ground water contamination
 - Off-site odors
- ⦿ Meet the 3 year rolling average material turnover rate
- ⦿ Comply with all health laws, Department regulations, and all applicable local laws and ordinances

8.3 RECYCLER REQUIREMENTS

⦿ Initial Registration

- Registered recycling facility
- Listed on CDPHE webpage and map

⦿ Annual Report (new due date: March 1st)

- Tons received, sent off-site, and remaining in onsite
- Amount sent offsite: downstream facility information to prevent double counting

8.3 RECYCLER REQUIREMENTS

⦿ Material Turnover Rate

- Sites allowed 1 year initial accumulation period
- Recyclables sent offsite shall be at least 75% of materials received using a “3 year rolling average”
- Facilities may submit a written justification to the Dept for a temporary commodity and site specific variance from the turnover rate

8.3 RECYCLER REQUIREMENTS

⦿ Operations Plan

■ Written plan detailing

- Materials managed & physical site description
- Preventing illegal dumping & site security
- Preventing and controlling fires
- Emergency response procedures
- Procedures to prevent unauthorized waste
- Closure plan, removal of materials prior to closure

- ⦿ Recyclers can request a review by the Dept. but a formal review is not required

8.3 RECYCLER REQUIREMENTS

◉ Closure Requirements

- Facilities shall notify the Dept 60 days in advance of closure.
- Prior to closure all recyclables and waste shall be processed or removed from site to prevent odors, ground water contamination, and nuisance conditions.
- Any material remaining following closure is considered illegal disposal of solid waste
- A final closure report shall be submitted to the Department 90 days following closure.

SENATE BILL 12-133

“Electronic Recycling Jobs Act”

SB 12-133

- ⦿ “A person shall not dispose of an electronic device or a component of an electronic device in a landfill in this state...”
- ⦿ State Agencies must use certified recycler such as R2 or E-stewards
- ⦿ CDPHE will shall develop a public education program on the disposal ban of electronic devices

SB 12-133

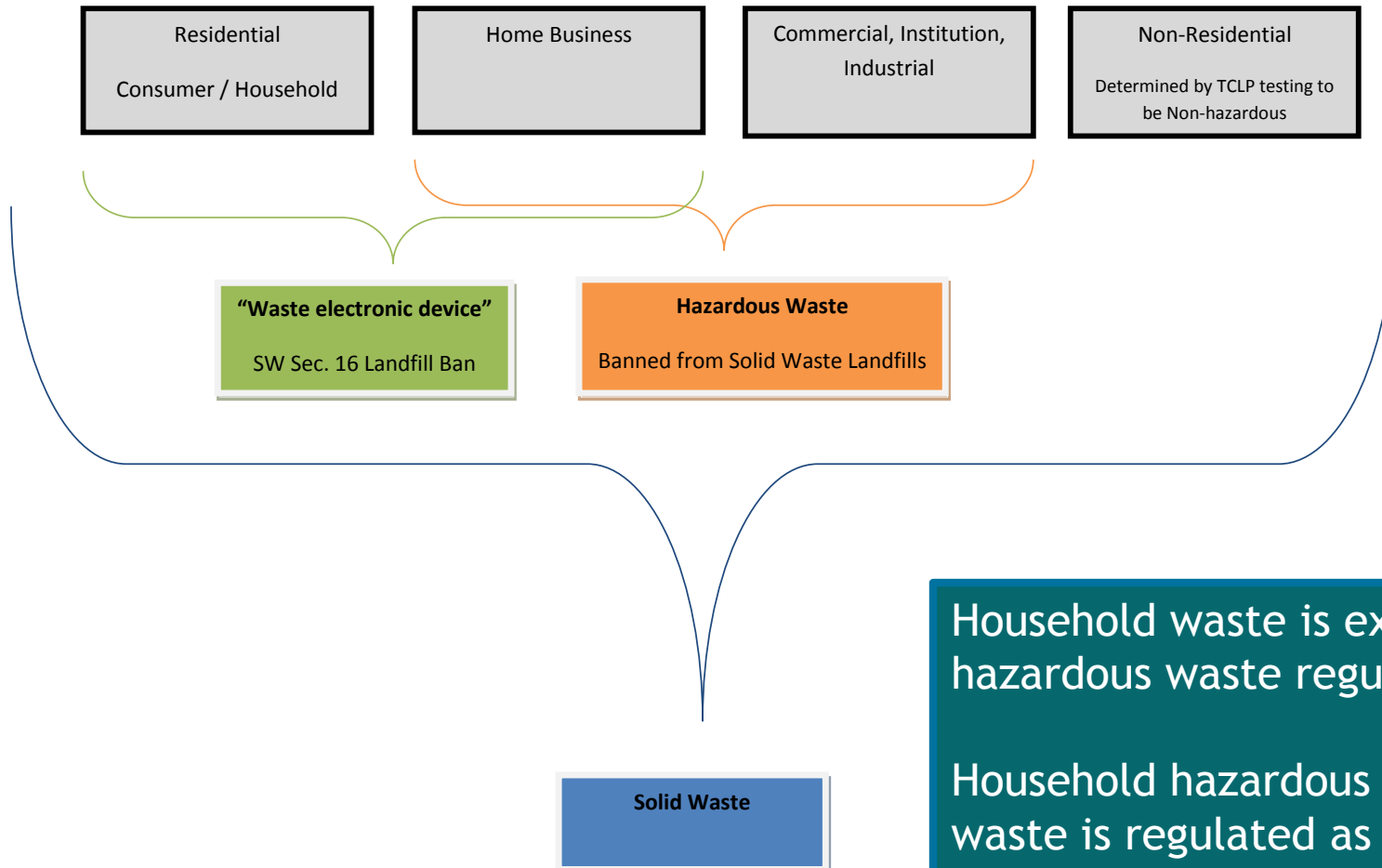
⦿ Electronic Device:

- Computers, Laptops
- Peripherals
- Printers
- Fax machines
- DVD & VCR players
- Televisions
- Tablets, netbooks
- CRTs & Screens over 4" diagonally

⦿ Exemptions

- Telephones
- Smart-phones
- Monitoring equip.
- Appliances
- Medical
- Industrial

Regulatory Construct of Electronic Waste



Household waste is exempt from hazardous waste regulations.

Household hazardous and electronic waste is regulated as solid waste.

households E-waste will be banned from the trash July 2013.

SUMMARY

- ◉ Sites dismantling e-waste need to register as a recycler with the solid waste program.
- ◉ Requirements include: a annual report, material turnover rate, and a site operations plan.
- ◉ In July 2013, residential e-waste will be banned in addition to commercial e-waste from CO landfills.
- ◉ Public Education will be needed to ensure e-waste is recycled.

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